

## **CLAIMS**

**1. (Currently Amended)** One or more computer-storage media comprising computer executable instructions that configure one or more processors to perform a  
[[A]] method comprising:

utilizing one or more computers to split a scene into one or more coherent layers, wherein:

each coherent layer of the scene has a corresponding plane equation to represent a local geometry of that coherent layer; and

the one or more coherent layers in combination represent a single plane of the scene;

propagating boundaries of the coherent layers across a plurality of frames corresponding to the scene;

refining the splitting to present a virtual view of the scene; and

rendering the coherent layers with a corresponding background layer to present the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

**2. (Currently Amended)** One or more computer-storage media A method as recited in claim 1, wherein the virtual view of the scene is substantially free from aliasing.

3. **(Currently Amended)** One or more computer-storage media ~~A method~~ as recited in claim 1, wherein each of the coherent layers has a corresponding background layer.

4. **(Currently Amended)** One or more computer-storage media ~~A method~~ as recited in claim 1, wherein the plurality of frames correspond to different images of the scene.

5. **(Currently Amended)** One or more computer-storage media ~~A method~~ as recited in claim 1, wherein the refining is initiated by a user.

6. **(Currently Amended)** One or more computer-storage media ~~A method~~ as recited in claim 1, wherein each layer of the scene has a corresponding plane equation to represent a local geometry of that layer.

7-34. **(Canceled)**

35. **(Previously Presented)** A system comprising:  
one or more processors configured to execute computer-readable instructions;  
a computer storage medium configured to store the computer-readable instructions;  
a layer pop-up module to split a scene into one or more coherent layers;

a boundary propagation module to propagate boundaries of the coherent layers across a plurality of frames corresponding to the scene;

a refinement module to refine the splitting to present a virtual view of the scene; and

a rendering module to render the coherent layers with a corresponding background layer to present the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

**36. (Original)** A system as recited in claim 35, wherein the virtual view of the scene is substantially free from aliasing.

**37. (Original)** A system as recited in claim 35, wherein the plurality of frames correspond to different images of the scene.

**38. (Original)** A system as recited in claim 35, wherein the refinement module is activated by a user.

**39. (Original)** A system as recited in claim 35, wherein each layer of the scene has a corresponding plane equation to represent a local geometry of that layer.

**40-41. (Canceled)**

**42. (Original)** A system as recited in claim 35, further comprising a memory module to store instructions.

**43. (Original)** A system as recited in claim 35, further comprising one or more processing units to execute a plurality of stored instructions on one or more memory modules coupled to the processors.

**44. (Previously Presented)** One or more computer-storage media comprising instructions stored thereon that direct a machine to perform acts comprising:

splitting a scene into one or more coherent layers, wherein;

each coherent layer of the scene has a corresponding plane equation to represent a local geometry of that coherent layer; and

the one or more coherent layers in combination represent a single plane of the scene;

propagating boundaries of the coherent layers across a plurality of frames corresponding to the scene, wherein the plurality of frames correspond to different images of the scene;

refining the splitting to present a virtual view of the scene, wherein the refining is;

initiated by a user;

allows the user to select at least one of the coherent layers;

allows the user to refine the corresponding plane equation of the selected coherent layer; and

allows the user to inspect and adjust the rendering quality of the selected coherent layer in real time;

rendering the coherent layers with a corresponding background layer to present the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

**45. (Previously Presented)** A computer-storage media as recited in claim 44, wherein the virtual view of the scene is substantially free from aliasing.

**46-54. (Canceled)**

**55. (Previously Presented)** An apparatus comprising:

- means for splitting a scene into one or more coherent layers;
- means for propagating boundaries of the coherent layers across a plurality of frames corresponding to the scene;
- means for refining the splitting to present a virtual view of the scene; and
- means for rendering the coherent layers with a corresponding background layer to display the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

**56-57. (Canceled)**

**58. (Currently Amended)** One or more computer-storage media ~~A method~~  
as recited in claim 1, wherein the scene represents a set of images.

**59. (Previously Presented)** A computer-storage media as recited in claim 44,  
wherein the scene represents a set of images.